

an establishing unit configured to establish a connection in the local network;
a transfer unit configured to transfer the audio/visual data transferred through a communication path that is reserved for receiving the audio/visual data transmitted from the transmitting node, to the connection established by the establishing unit; and
a commanding unit configured to command the non-IP receiving node to receive the audio/visual data which is transferred through the connection by the transfer unit, by using a communication protocol depending on the local network,
wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

24. (Twice Amended) The device of claim 20, further comprising:

a collecting unit configured to collect attribute information of the non-IP receiving node; and
a notifying unit configured to notify the attribute information to another data transfer control device belonging to the global network and/or the transmitting node.

26. (Twice Amended) The device of claim 20, further comprising:

a message receiving unit configured to receive a control message containing an information capable of specifying the non-IP receiving node, from another data transfer control device belonging to the global network and/or the transmitting node;
wherein the commanding unit commands a receiving of the audio/visual data to the receiving node as specified by the control message.

28. (Twice Amended) A data transfer control device for controlling transfer of audio/visual data from a transmitting node connected with a global network to a non-IP

receiving node connected with a local network, the data transfer control device being connected between the local network and the global network and comprising:

a first establishing unit configured to establish a connection in the local network;

a second establishing unit configured to establish a communication path between the data transfer control device and the global network or a transmitting node belonging to an upper logical network of the global network;

a conversion unit configured to convert a data format of the audio/visual data received through the communication path established by the second establishing unit, from a first data format depending on the global network to a second data format depending on the local network;

a transfer unit configured to transfer the audio/visual data with the data format converted by the conversion unit, to the connection established by the first establishing unit; and

a commanding unit configured to command the non-IP receiving node to receive the audio/visual data transferred through the connection by the transfer unit, by using a communication protocol depending on the local network,

wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

29. (Twice Amended) A data transfer control device for controlling transfer of audio/visual data from a transmitting node connected with a global network to a non-IP receiving node connected with a local network, the data transfer control device being connected between the local network and the global network and comprising:

a first establishing unit configured to establish a connection in the local network;

a second establishing unit configured to establish a communication path between the data transfer control device and the global network or a transmitting node belonging to an upper logical network of the global network;

an encoding/decoding unit configured to encode/decode the audio/visual data received through the communication path established by the second establishing unit;

a transfer unit configured to transfer the audio/visual data encoded/decoded by the encoding/decoding unit, to the connection established by the first establishing unit; and

a commanding unit configured to command the non-IP receiving node to receive the audio/visual data transferred through the connection by the transfer unit, by using a communication protocol depending on the local network,

wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

37. (Twice Amended) A relay device for transmitting a received data from a transmitted node connected with a global network to a non-IP receiving node connected with a local network, comprising:

a receiving unit configured to receive a control message requesting an encoding/decoding of the received data in a data format depending on the local network; and

a transmission unit configured to encode/decode the received data from global network according to the control message received by the receiving unit, and to transmit encoded/decoded data to the local network,

wherein a communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

38. (Twice Amended) A control device connected between a local network and a global network, comprising:

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a collecting unit configured to collect attribute information of transmitting and/or non-IP receiving nodes connected with the local network, according to a protocol depending on the local network; and

a notifying unit configured to notify the attribute information to a device connected with the global network, according to a network layer protocol not depending on the local network,

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wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving nodes and the transmitting nodes cannot directly communicate with each other.

93. (Amended) A data transfer control device for controlling transfer of audio/visual data to a non-IP receiving node connected with a local network from a transmitting node connected with a global network, the data transfer control device being connected between the local network and the global network and comprising:

an establishing unit configured to establish a connection in the global network for transmitting the audio/visual data;

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a reserving unit configured to reserve a communication path for transferring the audio/visual data transmitted through the connection to another data transfer control device belonging to the local network and/or the receiving node; and

a commanding unit configured to command the transmitting node to transmit the audio/visual data through the connection, by using a communication protocol depending on the global network,

wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

94. (Amended) A data transfer control device for controlling transfer of audio/visual data to a non-IP receiving node connected with a local network from a transmitting node connected with a global network, the data transfer control device being connected between the local network and the global network and comprising:

an establishing unit configured to establish a communication path for the audio/visual data transmitted from the transmitting node by using a signaling protocol of a network layer, the communication path reaching the data transfer control device from the transmitting node or another data transfer control device connected with the global network;

a receiving unit configured to receive a control message containing an information regarding a connection through which the audio/visual data is to be transferred to the non-IP receiving node; and

a commanding unit configured to command the non-IP receiving node to receive the audio/visual data transferred through the connection, by using a communication protocol depending on the local network,

wherein the communication protocol of the local network is different than a communication protocol of the global network such that the non-IP receiving node and the transmitting node cannot directly communicate with each other.

95. (Amended) A data transfer control device for controlling transfer of audio/visual data from a transmitting node connected with a global network to a non-IP receiving node connected with a local network, the data transfer control device being connected between the local network and the global network and comprising: